

STEREO MOC Status Report
Time Period: 2010:109 - 2010:115

STEREO Ahead (STA) Status:

1. The following Ground System anomalies occurred during this reporting period:

- On day 109, during the DSS 15 support, a transmitter anomaly occurred at 1232z. While the uplink was maintained, the problem caused the receiver to lose telemetry lock at 1251z. This resulted in the loss of several minutes of SSR data for all instruments. See DR# N106124 for more information.
- On day 112, the planned DSS 43 (70 meter) support was switched to use DSS 45 (34 meter) to assist the Voyager 2 mission in acquiring downlink frame lock. The duration of the DSS 45 support was increased to 7.1 hours. All SSR data was received.

2. The following spacecraft/instrument events occurred during this week:

- On day 109, two new downlink rates, 120 and 240 kbps, were tested successfully. These will be used to maintain daily science volume as the S/C range increases.
- On day 111, the 29th momentum dump was successfully executed at 1600Z, which imparted a delta V of 0.074 m/sec.
- The average daily SSR playback volume for Ahead was 5.8 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies occurred during this reporting period:

- On day 112, during the DSS 34 support, the command uplink was late due to the transmitter tripping off-line at 0220z. The transmitter was reset and the uplink was established at 0256z. This resulted in the loss of 36 minutes of commanding and tracking data and several minutes of SSR data for all instruments. See DR# C107324 for more information.
- On days 113,114 and 115, in-situ instruments SSR partitions began overwriting due to insufficient track coverage. For

this week, the BEHIND S/C was short nine hours of track time resulting in the loss of several hours of SSR data for three days for the in-situ instruments. For this situation, the primary cause of the insufficient track time was sharing the same view with many other higher priority missions.

2. The following spacecraft/instrument events occurred during this week:

- On day 112, the MOps permanent macro release 1.1.3 was loaded to C&DH EEPROM and RAM which removed the in-situ instrument SSR double playback at the 720 kbps downlink rate to increase data return.
- The average daily SSR playback volume for Behind was 4.4 Gbits during this week.